

INTERNAL LIFT FOR LIGHT DUTY MOTOR VEHICLE

ABSTRACT

A lift includes a first telescoping member including a flange for attaching the lift to a vehicle, a second telescoping member coupled to the first telescoping member, and

5 a tool coupled to the second telescoping member, wherein the tool is movable along two orthogonal axes of motion as determined by the two telescoping members. The telescoping members include at least two nested slides. A first slide includes a first pair of rollers on one side thereof and a second pair of rollers opposite the first pair. The second slide includes a pair of opposed U-shaped

10 channels that enclose the rollers to provide a telescoping action. If one axis of motion is vertical, a block is included between each pair of rollers. Each block is dimensioned to engage the bottom of a channel, whereby the blocks help stabilize the motion of the first slide. Motion along two axes is controlled by actuation of a single switch.